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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/703,628 11/10/2003		11/10/2003	Tsutomu Sato	ON2-US 2166		
26456 7590 10/14/2004				EXAMINER		
WALLACI 5726 CLAR			LEE, SIN J			
ALEXANDRIA, VA 22311-1008			ART UNIT		PAPER NUMBER	
				1752		

DATE MAILED: 10/14/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	i No.	Applicant(s)	
	Office Action Comments	10/703,628		SATO, TSUTOMU	
	Office Action Summary	Examiner		Art Unit	
		Sin J. Lee		1752	
Period fo	The MAILING DATE of this communic or Reply	cation appears on the c	over sheet with the	correspondence addre	ess
THE - External control	ORTENED STATUTORY PERIOD FO MAILING DATE OF THIS COMMUNIC nsions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commu e period for reply specified above is less than thirty (30) period for reply is specified above, the maximum stature to reply within the set or extended period for reply wreply received by the Office later than three months afted patent term adjustment. See 37 CFR 1.704(b).	CATION. f 37 CFR 1.136(a). In no event nication. days, a reply within the statute to trony period will apply and will & the problem of the problem.	t, however, may a reply be ting ony minimum of thirty (30) day expire SIX (6) MONTHS from ation to become ABANDONE	mely filed  ys will be considered timely, the mailing date of this comm	nunication.
Status					
1)	Responsive to communication(s) filed	on 10 November 200	)3. ·		
2a)□		D)⊠ This action is nor			
3)	Since this application is in condition for			osecution as to the m	erits is
	closed in accordance with the practice				
Disposit	ion of Claims				
4)⊠ 5)□ 6)⊠ 7)⊠	Claim(s) 1 is/are pending in the application 4a) Of the above claim(s) is/are Claim(s) is/are allowed.  Claim(s) 1 is/are rejected.  Claim(s) 1 is/are objected to.  Claim(s) are subject to restriction	e withdrawn from cons			. *
Applicati	on Papers				
10)⊠	The specification is objected to by the The drawing(s) filed on 10 November 2 Applicant may not request that any objection Replacement drawing sheet(s) including the oath or declaration is objected to the	$2003$ is/are: a) $\square$ accion to the drawing(s) be the correction is required	held in abeyance. See if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR	1.121(d).
Priority ι	ınder 35 U.S.C. § 119			÷	
12) a)l	Acknowledgment is made of a claim for All b) Some * c) None of:  1. Certified copies of the priority do  2. Certified copies of the priority do  3. Copies of the certified copies of application from the International cee the attached detailed Office action	ocuments have been ocuments have been of the priority document al Bureau (PCT Rule	received. received in Applicati ts have been receive 17.2(a)).	ion No ed in this National Sta	age
Attachmen	t(s)				
2) 🔲 Notic 3) 🔲 Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTC nation Disclosure Statement(s) (PTO-1449 or PT r No(s)/Mail Date	D-948) ГО/SB/08) 5	Interview Summary Paper No(s)/Mail Da Notice of Informal P Other:		2)

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## **DETAILED ACTION**

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## Claim Objections

1. Claim 1 is objected to because of the following informalities: applicant needs to change "(8) polyvinylformar resin" to --- (8) polyvinylformal resin ---. Appropriate correction is required.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Goto et al (US 6,777,156 B1) (with Ando et al (5,912,086) which is cited here to show that "Epoxyester 3000M" is an epoxy acrylate).

In Example 13 (see col.26, lines 55-67, col.27, lines 1-10), Goto teaches a heat sensitive layer composition containing carbon black, novolak resin, and "Epoxyester 3000 M".

In col.4, lines 14-19, Goto teaches the equivalence of carbon black and infrared-absorbing dye as his light-to-heat conversion material. Because the prior art teaches the equivalence of those two materials, one of ordinary skill in the art would have found it obvious to substitute the infrared-absorbing dye (*present photo-thermal conversion substance*) for carbon black as Goto's light-to-heat conversion material in his Example 13.

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In col.9, lines 8-21, Goto teaches the equivalence of novolak resin and *epoxy-modified phenolic resin* as his compound containing *phenolic hydroxyl group*. Because the prior art teaches the equivalence of those two resins, one of ordinary skill in the art would have found it obvious to substitute the epoxy-modified phenolic resin (*present alkaline soluble organic high molecular substance comprising epoxy resin having phenolic hydroxyl group*) for novolak resin as Goto's compound containing phenolic hydroxyl group in his Example 13.

The "Epoxyester 3000 M" which is used in Goto's Example 13 is an epoxy acrylate (as evidenced by Ando et al, col.6, line 41). In col.9, lines 37-40, Goto teaches the equivalence of the epoxy acrylate and *polyvinylbutyral resin*. Because the prior art teaches the equivalence of those two materials, one of ordinary skill in the art would have found it obvious to substitute polyvinylbutyral resin (*present adherence characteristic reforming agent*) for "Epoxyester 3000 M" in Goto's Example 13.

Therefore, Goto's teaching would render obvious present positive-type photosensitive composition of claim 1.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sin J. Lee whose telephone number is 571-272-1333. The examiner can normally be reached on Monday-Friday from 9:00 am EST to 5:30 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia Kelly, can be reached on 571-272-1526. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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S-J.L.

S. Lee October 13, 2004

Sin J. Lee

Patent Examiner

Technology Center 1700